

Work Order ID 156019

Thursday, February 16, 2017 2:13:36 PM

156019

Page 1

Item ID: D407-605-045 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: URF 16-567 Stop ***NS2***
 Item Name: Rear Locker Extender
 Start Date: 2/13/2017 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 2/14/2017 Req'd Qty: 1.00 ***1*** Customer: CROTO01
 Reference: RMA RA112412

Approvals: Process Plan: UMF Date: 17-2-16 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4738	A U/R								

100 0.00

100

QC

Quality Control

Memo

INSPECT RA112412
D407-605-045 X 1 B137432

KIT IS COMPLETE

ID AND STOCK UNDER NEW BATCH NUMBER @ CHG 001

ADD NEW LABELS AND PAPERWORK

110

Identify as per dwg & Stock Location: fg loc 0.00

110

Packaging

Packaging

Memo

0.00

① 17.02.16 PD

P.T.O.

**DAS
27
9-89**

MAR 01 2017

DART AEROSPACE				1270 ABERDEEN ST. HAWKESBURY ON, CANADA K6A 1K7 TEL 1-613-632-5200 www.dartaerospace.com	
PATENT	N/A				
P.N.	D407-605-045	CHG	CHG001		
DESC.	Rear Locker Extender	STC	SH01-61		
LOT	B137432	STC	SR01420NY		
MODEL	Bell 407	STC			
TC APPROVAL # 09-89		MADE IN CANADA		D2729-4	

DQA:

Date: 2017-04-05



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: RAH

Date: MAR 10 2017

Work Order update only ☒

Work Order: <u>156019</u>		DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Part No. <u>D407-605-045</u>		Rework ☒		Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐		
NCR No. <u>17-6328</u>		Scrap ☐		Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐		
		Use-as-is ☐		Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☒	Other ☐		
		Suspected Unapproved ☐		Large Fab ☐	Composite ☐	Supplier ☐			
Date: <u>Feb 28/17</u>		Step #: <u>100</u>		QTY Effective: <u>1</u>			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition			17-02-23		
found at packaging that kit was missing hardware				Qty 8 AUS26CB32R-8 M 134376 Qty 8 NAS1149DU016J M 128057 to be added in kit D407-605-045			Completed By		
							DAS 27 MAR 01 2017		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
							17-02-23		
Root Cause				FAULT CATEGORY					
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☒				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☒	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

Work Order ID 156019***156019***

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Item ID: D407-605-045 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: URF 16-567 Stop ***NS2***
Item Name: Rear Locker Extender
Start Date: 2/13/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 2/14/2017 Req'd Qty: 1.00 ***1*** Customer: CROTO01
Reference: RMA RA112412

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC21- Final Inspection - Work Order Release	0.00							MAR 0 1 2017
120									
QC	Memo	0.00							
Quality Control									

DAS
21
9-89

MAR 0 1 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____					
Misidentified ☐	☐ Past Due						

Picklist Print

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Work Order ID: 156019

156019

Parent Item: D407-605-045

D407-605-045

Parent Item Name: Rear Locker Extender

Start Date: 2/13/2017

Required Date: 2/14/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 13.04.19 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D407-605-045

Manufactured

No

Each

4.0000

1

D407-605-045

Rear Locker Extender

Location

Loc Qty

Loc Code

FG104

4

137432

4

1x137432 *unf*

17-2-16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Inspection Sheet Complete

RA112412

Customer QA Ref #

0

Part Number	Batch / Serial #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Disposition	Work order #	Work order instructions
D407-605-045	B137432	1	☒ yes	☒ yes	☒ yes	☒ yes	STOCK	156019	Kit complete. Repackage and visually inspect for damage Stock with new batch number at CHG001. Add new labels and paper work.
0	0	0	☐ yes	☐ yes	☐ yes	☐ yes			
0	0	0	☐ yes	☐ yes	☐ yes	☐ yes			
0	0	0	☐ yes	☐ yes	☐ yes	☐ yes			
0	0	0	☐ yes	☐ yes	☐ yes	☐ yes			
0	0	0	☐ yes	☐ yes	☐ yes	☐ yes			

QC Approval: P.D.

Date: 02.10.2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

RETURN AUTHORIZATION



RA #:

RA112412

Date:

October 31, 2016

Attention:

Veronica Lozano

E-mail:

veronica@rotorcraftsupport.com

From:

Jennifer Renwick

RETURN ADDRESS

☒ Hawkesbury

Dart Aerospace Ltd

1270 Aberdeen Street

Hawkesbury, ON K6A 1K7, CA

1-613-632-3336

☐ Vista

Dart Aerospace Ltd.

3030 Enterprise Court, Suite A

Vista, CA 92081-8347, US

1-760-724-5300

☐ Eugene

Dart Aerospace Ltd.

190 S. Danebo Avenue

Eugene, OR 97402, US

1-541-344-9953

SHIPPING

Courier: Customer Choice

Account #: Customer Choice

COMMERCIAL INVOICE INFORMATION

Item #1		Item #2	
P/N:	D407-605-045	P/N:	0
Description:	Rear Locker Extender	Description:	0
Qty:	1	Qty:	0
Customs Value USD:	\$836	Customs Value USD:	\$0
Batch / Serial #	B137432	Batch / Serial #	0
Item #3		Item #4	
P/N:	0	P/N:	0
Description:	0	Description:	0
Qty:	0	Qty:	0
Customs Value USD:	\$0	Customs Value USD:	\$0
Batch / Serial #	0	Batch / Serial #	\$ -
Item #5		Item #6	
P/N:	0	P/N:	0
Description:	0	Description:	0
Qty:	0	Qty:	0
Customs Value USD:	\$0	Customs Value USD:	\$0
Batch / Serial #	0	Batch / Serial #	0

ADDITIONAL RETURN AUTHORIZATION INFORMATION

- Print RA form, complete Part Disposition section and include a copy with the shipment.
- Ensure the RA number is referenced on all documents. Failure to do so may result in delivery refusal.
- Ensure the shipment is directed to the correct facility referenced above. Failure to do so will result in delays and additional shipping costs.
- Commercial invoice must include the following statement: "Parts are aircraft parts being returned to the manufacturer."
- International shipments require commercial invoice attached to the outside of the box.
- Where applicable, the original Release Certificate, STC's, Installation Instructions, Maintenance Manual Supplement, Flight Manual Supplement, packing slips and removable tag must accompany the shipment.
- Return authorization expires in 30 days. If no charge products were supplied, these will be invoiced upon expiration of the RA.
- Returned items will be fully inspected by Quality Control and credit will be issued for items deemed to be new, un-flown and traceable.
- A 15% minimum restocking fee applies, additional fees may apply upon receipt and inspection if items require rework or cannot be returned to stock
- Items should be adequately packaged to prevent shipping damage.
- For complete terms & conditions, visit www.dartaerospace.com

PART DISPOSITION (To be completed and returned by customer)

Product Condition: ☒ New - Unopened ☐ New - Opened ☐ New - Installed ☐ Flown

Reason for return:

Not needed on helicopter



ROTORCRAFT SUPPORT INC.

ROTORCRAFT SUPPORT, INC.

16425 Hart Street
Van Nuys, CA 91406

Tel: (818) 997-7667
Fax: (818) 997-1513

F.A.A. Certificate YT2R331L
www.rotorcraftsupport.com

CLAIM



Print Date : Oct-31-2016 7:33:21 AM

Printed By : VER Print No. : 1

No. : 009540		Pg:1
For : Account No. [5035]		Ship To:
DART AEROSPACE Attn: NATALIE TAITT, SALES 1270 ABERDEEN STREET HAWKESBURY, ON K6A1K7 CANADA Tel. : 1-246-420-7282 Fax : 1-246-420-7245		DART AEROSPACE Attn: NATALIE TAITT, SALES 1270 ABERDEEN STREET HAWKESBURY, ON K6A1K7 CANADA Tel. : 1-246-420-7282 Fax : 1-246-420-7245
Issue Date : Oct-31-2016	Approved Date :	
Our P.O. : 106365	WO # : 17441	Domestic AWB :
Invoice No. : 161697	A/C Reg # :	Int'l AWB :
Ship Date : Oct-31-2016	A/C S/N :	Origin :
Valid Till :	Contract :	Transport :
Ship Via :	Lic No. :	Nationality :
F.O.B. : ORIGIN	Expires :	Trip/Flight :
Vendor RMA : RA112412		
Our Contact : VERONICA LOZANO Phone : 818-997-7667 Ext. 263 Fax : 818-997-8060 Email : veronica@rotorcraftsupport.com		

Line	P/N & Description	Cnd	Qty Claimed	Shipped	Unit Price	Amount
1	D407-605-045 REAR LOCKER EXTENDER Our P.O. : 106365 Claim Type :Qty Return For Credit MFG: (5035) DART AEROSPACE	NE	1.00 EA	1.00	\$ 836.4000 EA	\$ 836.40

Sub Total: \$ 836.40

Total: [USD] \$ 836.40

VERONICA LOZANO, Repairables/Exchange

25.3 WEIGHT AND BALANCE

The following weight and balance information is for the Dart *Rear Locker Extender™* Installation. The weight and balance of the parts that are removed from the aircraft to perform this installation are the responsibility of the installer.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-605-041/-043	5.0 lb	0.0 in	0.0 in-lb	+174.7 in	+873 in-lb
Bell 206A/B	2.27 Kg	0.0 m	0.0 m-Kg	+4.44 m	+10.1 m-Kg
D206-605-043	5.0 lb	0.0 in	0.0 in-lb	+196.5 in	+982 in-lb
Bell 206L/L1/L3/L4	2.27 Kg	0.0 m	0.0 m-Kg	+5.00 m	+11.4 m-Kg
D407-605-045	5.0 lb	0.0 in	0.0 in-lb	+196.5 in	+982 in-lb
Bell 407	2.27 Kg	0.0 m	0.0 m-Kg	+5.00 m	+11.4 m-Kg

25.4 PARTS LIST

Qty -041	Qty -043	Qty -045	Part Number	Description
X			D206-605-041	REAR LOCKER EXTENDER INSTALLATION
	X		D206-605-043	REAR LOCKER EXTENDER INSTALLATION
		X	D407-605-045	REAR LOCKER EXTENDER INSTALLATION
1			D2566	REAR LOCKER EXTENDER
1	1	1	D2567	PLACARD
	1		D4678-1	REAR LOCKER EXTENDER
		1	D4738-1	REAR LOCKER EXTENDER
7	8	8	AN526C832R-8	SCREW
3			AN526C1032R-8	SCREW
3			ALS7-1032-130 or ALS4-1032-130 or AKS4-1032-130 or AKS7-1032-130 or AELS-1032-130	INSERT
7	8	8	NAS1149DN816J	WASHER ALT. P/N AN960JD8L
3			NAS1149D0332J	WASHER ALT. P/N AN960JD10L